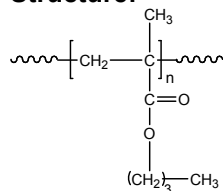


Sample Name: Poly(n-butyl methacrylate)

Sample #: P6396-nBuMA

**Structure:**

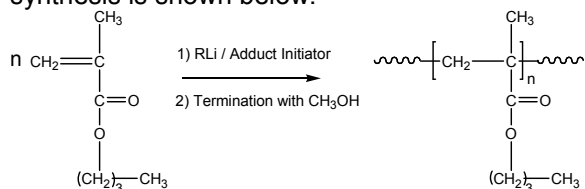


**Composition:**

$M_n \times 10^3$	PDI
15.6	1.06

**Synthesis Procedure:**

Poly(n-butyl methacrylate) is obtained by living anionic polymerization of n-butyl methacrylate. The reaction scheme used for the polymer synthesis is shown below:



**Characterization:**

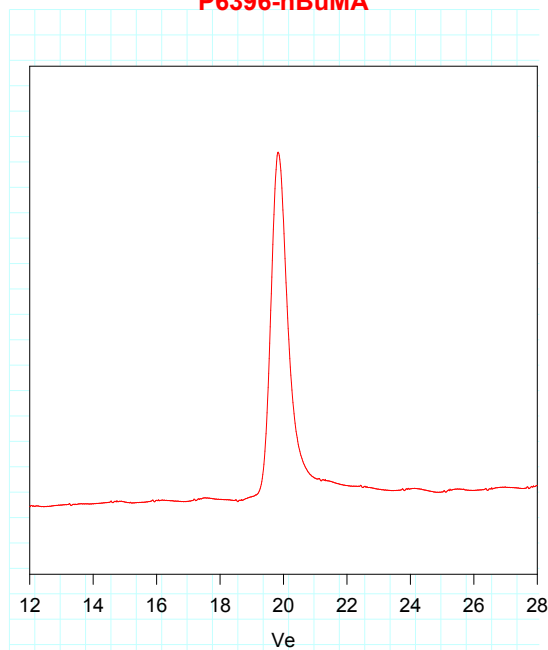
The molecular weight and polydispersity index (PDI) of Poly(n-butyl methacrylate) are obtained by size exclusion chromatography.

**Solubility:**

Poly(n-butyl methacrylate) is soluble in THF,  $\text{CHCl}_3$ , toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

**SEC of Homopolymer:**

**P6396-nBuMA**



Size Exclusion Chromatography of Poly(n-butyl methacrylate):

$M_n = 15600$ ,  $M_w = 16600$ ,  $PI = 1.06$